

LUKASHEV, K.I.; MARKOVA, A.P.

Data on chemical study of brines in Devonian deposits of the Pervomayskaya prospect (well R-2). Dokl. AN BSSR 5 no.11:503-505 N '61. (MIRA 15:1)

1. Institut geologicheskikh nauk AN BSSR.  
(Pervomayskaya region (White Russia)--Brines)  
(Petroleum geology)

LUKASHEV, K.I.; MARKOVA, A.P.; ZHUKHOVITSKAYA, A.L.

Chemical characteristics of Paleozoic brines of the Chervonnaya  
Sloboda prospect (well No.1). Dokl. AN BSSR 5 no.12:561-~~563~~  
D '61. (MIRA 15:1)

1. Institut geologicheskikh nauk AN BSSR.  
(Chervonnaya Sloboda region--Brines) (Petroleum geology)

LUKASHEV, K.I.

LUKASHOU, K.I.; KUZNYATSOU, U.A.

Action of elementary particles in geochemical processes. Vestsi  
AN BSSR.Ser.fiz.-tekhn. no.1:74-83 '62. (MIRA 16:9)  
(Particles (Nuclear physics)) (Geochemistry)

LUKASHEV, K.I.; MOTUZ, V.M.

Genetic types of loesslike rocks of the Minsk-Dzerzhinsk massif.  
Dokl. AN BSSR 6 no.1:45-48 Ja '62. (MIRA 15:2)

1. Institut geologicheskikh nauk AN BSSR.  
(Minsk Province--Loess)

LUKASHEV, K.I.; PETUKHOVA, N.N.

Manganese migration and forms of accumulation in soils and plants of  
southeastern Polesye. Dokl.AN BSSR 6 no.4:251-254 Ap '62.  
(MIRA 15:4)

1. Institut geologicheskikh nauk AN BSSR.

(Polesye--Soils--Manganese content)

(Plants, Effect of manganese on)

LUKASHEV, K.I.; PETUKHOVA, N.N.

Migration and forms of accumulation of copper in rocks, soils,  
and plants of southeastern Polesye. Dokl. AN BSSR 6 no.5:320-322  
My '62. (MIRA 15:6)

1. Institut geologicheskikh nauk AN BSSR.  
(Polesye—Geochemistry)

LUKASHEV, Konstantin Ignat'yevich, akademik; FAYNBOYM, I.B., red.;  
NAZAROVA, A.S., tekhn. red.

[Chemistry of the earth; geochemistry of the earth's crust]  
Khimiia Zemli; geokhimiia zemnoi kory. Moskva, Izd-ve  
"Znanie," 1962. 30 p. (Novoe v zhizni, nauke, tekhnike.  
IX Seriya: Fizika i khimiia, no.13) (MIRA 15:7)

1. Akademiya nauk Belorusskoy SSR (for Lukashev).  
(Geochemistry)

LUKASHEV, Konstantin Ignat'yevich, akademik; KAPRANOVA, N.V.,red.;  
ZIMA, Ye.G.[Zima, IE.H.], tekhn. red.

[New horizons of science] Novye goryzonty nauki. Minsk.  
1962. 31 p. (Obshchestvo po rasprostraneniiu politicheskikh  
i nauchnykh znanii Belorusskoi SSR, no.7) (MIRA 15:7)

1. Akademiya nauk Belorusskoy SSR (for Lukashev).  
(Technology)

LUKASHEV, K.I. [Lukashou, K.I.]

Some problems in the geochemistry of the supergenic formation  
of carbonate rocks. Vestsyi AN BSSR. Ser. fiz.-tekhn. nav.  
no.3:89-96 '62. (MIRA 18:3)

LUKASHEV, K.I.; PETUKHOVA, N.N.

Nickel and cobalt content in the soil - vegetation complex  
of the southeastern Polesye. Dokl. AN BSSR 6 no.7:448-  
452 Jl '62. (MIRA 16:8)

1. Institut geologicheskikh nauk AN BSSR.  
(Polesye---Trace elements)

LUKASHEV, K.I. [Lukashou, K.I.]

V.I.Vernadskii and the development of geochemistry. Vestsi AN BSSR.  
Ser. Fiz.-tekhn. nav. no.2:123-129 '63. (MIRA 17:1)

LUKASHEV, Konstantin Ignat'yevich, akademik; BARABANOVA, Ye., red.;  
VOLOKHONOVICH, I., tekhn. red.

[Studies on the geochemistry of supergene zones] Ocherki po  
geokhimii gipergeneza. Minsk, Izd-vo Akad. nauk BSSR, 1963.  
445 p. (MIRA 16:6)

1. Akademiya nauk Belorusskoy SSR (for Lukashev).  
(Geochemistry)

ACCESSION NR: AP4014232

S/0201/63/000/004/0085/0091

AUTHORS: Lukashev, K. I.; Kuznetsov, V. A.

TITLE: Interaction between geochemical and cosmic processes and certain geochemical problems

SOURCE: AN BSSR. Izvestiya. Ser. fiz.-tekhn. nauk, no. 4, 1963, 85-91

TOPIC TAGS: geochemical process, geological process, cosmic process, solar energy, cosmic dust, astronomic phenomena, chemical element, isotope formation, orogeny, volcanism, earth structure, meteor composition

ABSTRACT: This article presents complex interrelations between geochemical and cosmic processes in the light of new data obtained from the cosmic flights. This interrelation is based on the exchange of matter between earth and cosmos and on the effect of cosmic rays with the earth's matter. The scope of this effect is greatly affected by solar activity which also causes the cyclicity in the geochemical processes on the earth. By now the identical nature of chemical and isotope composition of matter on the earth and in the cosmos has been proven. It is also known that the distribution of chemical elements in the cosmos is determined

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ACCESSION NR: AP4014232

by: 1) their nuclear structure; 2) their resistance to radioactive decomposition, spontaneous fission, and nuclear reactions; 3) cosmic phenomena such as nature of the processes involved, evolution, the state of cosmic bodies, their interaction with one another, etc. Cosmic matter occurs in a state of permanent migration, the scale of which varies from the atomic displacements in crystalline lattices to the reaction between cosmic rays and earth matter. The most vital problem at this time pertains to the genesis of chemical elements. It is being studied by using new discoveries in the field of the physics of elementary particles and by theories bearing on the subject of geochemistry.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: CH, AS

NO REF SOV: 004

OTHER: 005

Card 2/2

LUKASHEV, K.I.; KHOMICH, A.A.

Main features of the chemical stratification of present-day lacustrine  
deposits of the White Russian Lake Region. Dokl. AN BSSR 7 no.1:44-47  
(MIRA 17:1)  
Ja '63.

1. Institut geologicheskikh nauk AN BSSR.

LUKASHEV, K.I. & SOLOGUB, V.M.

Granulometric composition of the anthropogenic deposits of White  
Russian Polesye. Dokl. AN BSSR 7 no.3:178-185 Mr '63.  
(MIRA 16:6)

1. Institut geologicheskikh nauk AN BESSR.  
(Polesye--Geology, Stratigraphic)

LUKASHEV, K.I.; KHOMICH, A.A.

Formation of carbonates in present-day reservoirs in the  
White Russian lake region. Dokl. AN BSSR 7 no.4:259-261  
(MIRA 16:11)  
Ap '63.

1. Institut geologicheskikh nauk AN BSSR.

LUKASHEV, K.I.; MAKHNACH, S.D.

Mineralogical composition of arenaceous-silt particles of  
alluvial and fluvioglacial deposits in the Polesye. Dokl. AN  
BSSR 7 no.6:395-400 Je '63. (MIRA 16:10)

1. Institut geologicheskikh nauk AN BSSR.

LUKASHEV, K.I.; ZHUKHOVITSKAYA, A.L.; ZAMYATKINA, A.A.

Some features of the formation of the chemical composition of river  
waters of the Polesye lowland in the White Russian S.S.R. Dokl.  
AN BSSR 7 no.7:470-473 Jl '63. (MIRA 16:10)

1. Institut geologicheskikh nauk AN BSSR.

LUKASHEV, K.I.; DOMASHKO, S.G.

Mineralogy of Quaternary sediments in the eastern part of the  
White-Russian Polesye. Dokl. AN BSSR 7 no.12:829-835 D '63.  
(MIRA 17:8)

LUKASHEV, K.I.

"Climate and agriculture of White Russia" by A.Kh. Shkliar.  
Reviewed by K.I. Lukashev. Izv. Vses. geog. ob-va 95 no.6:  
(MIRA 17:1)  
557-559 N-D '63.

LUKASHEV, K.I.; KUZNETSOV, V.A.

Relationship between geochemical and cosmic processes and some  
geochemical problems. Vestsi AN BSSR. Ser. fiz.-tekhn. nauk. no.4;  
85-91 '63. (MIRA 17:12)

LUKASHEV, K.I. [Lukashou, K.I.]

Some characteristics of the behavior of chemical elements in  
the supergene cycle of migration. Vestsi AN BSSR Ser. fiz.  
tekh. nav. no.1:65-73 '64 (MIRA 17:7)

IUKASHEV, K.I. [Lukashcu, K.I.]; PETUKHOVA, N.N.

Manganese in the soils and rocks of the White Russian Polesye.  
Vestsi AN BSSR. Ser. fiz.-tekhn. nav. no.2:105-118 '64.  
(MIRA 18:1)

LUKASHEV, K.I. [Lukashou, K.I.]

Some characteristics of the lithogenesis of loess. Vestsi AN  
BSSR. Ser. fiz.-tekhn. nav. no.3:91-98 '64. (MIRA 18:2)

LUKASHEV, K. T.

Forms of the participation of trace elements in supergene  
mineral formation. Dokl. AN BSSR 8 no. 2: 116-119 F '64.  
(MIRA 17:8)  
1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, K.I.; KUDRYAV, P.A.

Hydrogeochemical provinces. Dokl. AN BSSR 8 no.5:321-325  
By '64. (MIRA 17:9)

1. Laboratoriys. geokhimicheskikh problem AN BSSR.

LUKASHEV, Konstantin Ignat'yevich

[Geochemical behavior of elements in the superge cycle  
of migration] Geokhimicheskoe povedenie elementov v  
gipergennom tsikle migratsii. Minsk, Nauka i tekhnika,  
1964. 460 p. (MIRA 18:2)

LUKASHEV, K.I.

Genetic types of the lithogeochemical provinces of the  
supergenesis. Dokl. AN BSSR 8 no.6:398-402 Je '64.  
(MIRA 17:10)  
1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHOV, K.I.; KUZNETSOV, V.A.; LUKASHEV, V.K.

Geochemical types of weathering surfaces in White Russian  
Polesye. Dokl. AN BSSR 8 no.7:455-458 '64. (MIRA 17:10)

1. Laboratoriya geoхimicheskikh problem AN BSSR.

LUKASHEV, K.I. [Lukashov, K.I.]; ZHUKHOVITSEVA, A.L. [Zhukhavitskaya, A.I.]; Zamyatkina, A.A.

Hydrogeochemical characteristics of the internal waters of the Pripyat fault depending on the lithological composition of enclosing rocks. Vestsi AN BSSR. Ser. fiz.-tekhn. nav. no. 2964-71  
162. (MJRA 18t4)

LUKASHEV, K.I. [Lukashou, K.I.]

Utilization of geochemical data and methods for the solution  
of scientific and practical problems in geology. Vestn. Ak  
BSSR. Ser. fiz.-tekhn. nauk. n. 48(8), 77-162. (MIA 18z4)

LUKASHEV, K.I.; KUZNETSOV, V.A.; LUKASHEV, V.K.

Geochemical processes in the landforms of the White Russian Polesye.  
Dokl. AN BSSR 8 no.10:661-663 O '64. (MIRA 18:3)

1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, K.I.; SACHOK, G.I.; LUKASHEV, V.K.

Statistical indexes of the content of chemical elements in the  
cover sediments of White Russian Polesye. Dokl. AN BSSR 9 no.2:  
108-110 F '65. (MIRA 18:5)

1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, K.I.; BUYALOV, N.I.

Results of the conference on the geochemistry of supergenesis. Sov.  
geol. 8 no.4:148-150 Ap '65. (MIRA 18:7)

1. Laboratoriya geokhimicheskikh problem AN BSSR i Vsesoyuznyy nauchno-  
issledovatel'skiy neftyanoy geologorazvedochnyy institut.

IUKASHEV, K.I.; ZHUKHOVITSKAYA, A.L.; ZAMYATKINA, A.A.

Heavy metals in the surface waters of the Pripyat Polesya in the  
White Russian S.S.R. Dokl. AN BSSR 9 no. 3:183-186 Mr '65.  
(MIRA 18:6)

1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, Konstantin Ignat'yevich; IORDANSKIY, A.D., red.

[Atoms and our planet] Atomy i nasha planeta. Moskva,  
Znanie, 1965. 91 p. (Narodnyi universitet: Estestvenno-  
nauchnyi fakul'tet, no.6) (MIRA 18:7)

1. Vitse-prezident AN Belorusskoy SSR (for Lukashev).

LUKASHEV, K.I. [Lukashou, K.I.]; BUYALOV, N.I. [Buialau, M.I.]

Oil and gas potentials of the territory of the White  
Russian S.S.R. Vestsii AN BSSR. Ser. khim. nav. no. 2:67-78  
'65.

(MIRA 18:12)

LUKASHEV, K.I.; SACHOK, G.I.; LUKASHEV, V.K.

Geochemical areas of calys based on their chemical indices.  
Dokl. AN BSSR 9 no.6:387-392 Je '65. (MIRA 12:9)

1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, K.I.; PETUKHOVA, N.N.

Soil-biogeochemical areas in White Russian Pelesye. Dokl. AN BSSR  
9 no. 7:468-472 Jl '65. (MIRA 18:9)

1. Laboratoriya geokhimicheskikh problem AN Belorusskoy SSR.

LUKASHEV, K.I.; SACHOK, G.I.; LUKASHEV, V.K.

Lithological and geochemical characteristics of the clays of various genetic types in the White Russian S.S.R. Dokl. AN BSSR 9 no.8:53?~ 536 Ag '65. (MIRA 18:10)

1. Laboratoriya geokhimicheskikh problem AN BSSR.

LUKASHEV, Konstantin Ignat'yevich; LUKASHEV, Valentin Konstantinovich

[Science discloses the mysteries of nature] Nauka raskryvaet  
tairy prirody. Minsk, Nauka i tekhnika, 1965. 159 p.  
(MIRA 18:9)

LUKASHEV, K.I.; SACHOK, G.I.; LUKASHEV, V.K.

Barium in the cover beds of White Russian Polesye. Dokl. AN  
BSSR 9 no. 4:243-246 Ap '65 (MIRA 19:1)

1. Laboratoriya geokhimicheskikh problem AN BSSR. Submitted  
March 13, 1965.

LUKASHEV, K.I.; SACHOK, G.I.; LUKASHEV, V.K.

Effect of paleogeological conditions governing the formation  
of Quaternary clays in the White Russian S.S.R. on their  
chemical composition. Dokl. AN BSSR 9 no. 5:320-324 My '65  
(MIRA 19:1)

1. Laboratoriya geokhimicheskikh problem AN BSSR. Submitted  
April 22, 1965.

LUKASHEV, K.I., akademik; Prinimali uchastiye: LUKASHEV, V.K.;  
SACHOK, G.I.

Comparison of the lithological characteristics of loess in  
White Russia with other Quaternary sediments. Dokl. AN BSSR  
9 no.9:598-602 S '65. (MIRA 18:11)

1. Akademiya nauk Belorusskoy SSR (for Lukashev).

DROMASHKO, S.G.; LUKASHEV, K.I.; MATVEYEV, A.I.; SOLOGUB, V.M.

Mineralogical subprovinces of Quaternary sediments in the  
White Russian Polesye. Dokl. AN BSSR 9 no.10:675-679 0  
'65. (MIRA 18:12)

1. Laboratoriya geokhimicheskikh problem AN BSSR. Submitted  
September 29, 1965.

DULGARIA/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77201.

Author : Lukashev I.  
Inst : Academy of Sciences of Bulgaria, Chemical Institute.  
Title : Application of Derivative Polarography to Determination of Sodium and Potassium in Ceramic Materials. Specification of Determination Conditions and Minimum Determinable Amounts.

Orig Pub: Izv. khim. in-t, D"lg. AN, 1957, 5, 17-38.

Abstract: Theoretical foundations of the derivation polarography are discussed; a method of Na and K determination in ceramic materials is developed. In order to eliminate the oscillations, the usual drop

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BULGARIA/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77201.

electrode is substituted with a bent capillary of 85/ $\mu$  in dia. and of a dropping rate of one drop per sec. For the determination of more than 3.10 M of Na and K. a mutual total derivation curve of Na and K is taken on the background of LiOH and at pH above 9.5, in the range of from -2.2 to -2.4 v referred to the saturated cathode electrode, after which the derivation curve of K on the same background is taken, after K has been separated by the perchlorate method. Na is determined by the difference. The elimination of O<sub>2</sub> from the solution is not done. The analysis is carried out as follows: 0.5 g of finely ground sample in a Pt crucible is wetted with few drops of 72%ual HClO<sub>4</sub>.

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BULGARIA/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77201.

about 10 ml of 35 to 40% -ual HF is carefully added and, after the end of the violent reaction, the mixture is evaporated in a sand bath until  $\text{HClO}_4$  vapors appear, after which it is cooled, 2 ml. of  $\text{HClO}_4$  is added, and all is diluted with water to 100 ml. 2 ml. of 0.5 n. LiOH solution and 1 drop of  $\text{H}_3\text{PO}_4$  (for the precipitation of Ca) are added to 2 ml. of the prepared solution and the polarographing is carried out, the galvanometer sensitivity being 1 : 10. In order to separate K from Na, 2 ml of the analyzed solution in a centrifugal test tube is evaporated to 0.2 to 0.3 ml in a sand bath, the test tube wall is wetted with the remaining solution in order to dissolve the salt cry-

Card : 3/5

DULGARIA/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77201.

stallized on it, 3 ml of water-free  $C_2H_5OH$  is added, all is acidified with perchloric acid, stirred and centrifuged 10 min. The liquid is separated with a siphon, the precipitate of  $KClO_4$  is washed twice with alcohol in the same manner, dried at  $130^\circ$  and dissolved in 3 ml of water.

1 ml of 0.5 n. LiOH and 1 drop of 1 n.  $H_3PO_4$  are added to the prepared solution, which is polarographed then at the same sensitivity. The background solution should not be kept in a glass vessel more than 1 month. The molecular ratio Li : Na in the analyzed solution should be between 10 : 1 and 100 : 1, and Li : K should be between 16 : 1 and 100 : 1. Well reproducible results were obtained at the analyses of sam-

Card : 4/5

Lukashov, L.

BULGARIA / Chemical Technology. Chemical Products and H  
Their Application. Ceramics. Glass. Bind-  
ing Materials. Ectones. Ceramics.

Abs Jour: Rof Zhur-khimiya, No 9, 1959, 32062.

Author : Lukashov, L.

Inst : Not given.

Title : A New Form of Specimens of Ceramic Materials  
for the Testing of Tensile Strength.

Orig Pub: Teshka promishlonost, 1958, 7, No 6, 23-27.

Abstract: It is proposed to change the present form of  
standard specimens for the testing of the ten-  
sile strength of ceramic materials to a cylin-  
drical form, 20 mm. in diameter, which may be  
molded on a press of ordinary technology. A  
diagram of a stand for testing the cylindrical  
specimen is presented. -- Yu. Satunovskiy.

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207

Lukashev, I.

Method for baking porcelain electric insulators in tunnel kilns. p. 23.

TEZHKA PROMISHLENOST, Sofiia, Bulgaria, Vol. 8, no. 4, Apr. 1959

Monthly list for East European Accessions (EEAI) LC. Vol. 8, no. 10, Oct. 1959  
Uncl.

LUKASHEV, L.

Possibilities of applying polarographic analyses in the study of ceramic materials. Khim i industriia 33 no.2:37-41 '61.

LUKASHEV, L.

LUKASHEV, L. Measurement of large ohmic resistance of dielectrics with the  
electrometer. p. 34. Vol. 6, no. 7, July 1956. RATIONALIZATSIA. Sofiia,  
Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4-- April 1957

BULGARIA / Chemical Technology. Chemical Products and  
Their Applications. Chemical Processing of  
Solid Fossil Fuels. H

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13168.

Author : Lukashev, L.  
Inst : Not given.

Title : Determination of Sulfur in Solid Fuel by the  
Method of Ammeter Titration.

Orig Pub: Izv. khim. in-t, Bolg. AN, 1957, 5, 123-129.

**Abstract:** A method is proposed for determining different  
forms of S in coal by means of ammeter titration  
with a solution of  $Pb(NO_3)_2$ . Also, a simple  
adaptation is described which substitutes a vessel  
for AMT. -- Ya.Satunovskiy.

Card 1/1

LUKASHEV, L.

BULGARIA / Laboratory Equipment, Apparatus, Their  
Theory, Construction and Application.

F

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60801.

Author : L. Lukashev.

Inst : Chemical Institute of Academy of Sciences of  
Bulgaria.

Title : Laboratory Electrolyzer for Hydrogen Production.

Orig Pub: Izv. Khim. in-t B"lg. AN, 1957, 5, 131-134.

Abstract: The electrolyzer is made based on Kipp's instrument, into the lower vessel of which Ni electrodes for the electrolytic decomposition of 10%-ual KOH or NaOH solution are introduced. In order to protect the electrolyzer from exploding, it is pro-

Card 1/2

BULGARIA / Laboratory Equipment. Apparatus, Their  
Theory, Construction and Application.

F

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60801.

**Abstract:** vided on the outside with blocking contacts, which disconnect the electric circuit as soon as a corresponding amount of the solution displaced from the lower vessel by the produced H<sub>2</sub> enters the upper vessel. The current in the electrolyzer is 4 to 6 a. The instrument is useful for blowing solutions through at polarographing, for working with a H electrode at potentiometric determinations, and for intensive bubbling at amperometric titration.

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LUKASHEV, L.

Device for automatic switching on and turning off electric distillers. p. 15  
Eatsionalizatsii Vol. 8, No. 1, 1958. Sofia, Bulgaria.

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,  
Oct. 58

L 14664-66 EWT(1)/EWT(m)/EWP(w)/T/EWP(t)/EWP(b) JD/EM  
ACC NR: AT6003105 SOURCE CODE: UR/3181/6;000/015/0331/0339

AUTHOR: Lukashev, L. G.

40  
B71

ORG: Kuybyshev Aviation Institute (Kuybyshevskiy aviationsionnyy institut); Joint Scientific-Technical Conference on Problems of the Mechanics of Liquid and Gas (Kustovaya nauchno-tehnicheskaya konferentsiya po voprosam mekhaniki zhidkosti i gaza)

TITLE: A study of the possibility of the existence of an equilibrium crack during the elastoplastic destruction of plates

SOURCE: Kuybyshev. Aviationsionnyy institut. Trudy, no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tehnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza (Reports of the Joint scientific-technical conference on problems of the mechanics of liquid and gas), 331-339

TOPIC TAGS: crack propagation, structural strength, thin plate, complex variable, elastic theory

ABSTRACT: The possibility of the existence of an equilibrium crack in a plate undergoing elastoplastic destruction is investigated. The plate is described as

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L 14664-66  
ACC NR: AT6003105

being planar and isotropic, with an axially-symmetric straight-line crack present in its surface during loading. The bearing capacity of the plate is the loading which causes the crack to increase in length. Random factors which would cause the crack not to be linear are ignored. A schematic diagram of the crack region of the plate is shown in Fig. 1, wherein  $2l$  is the length of the crack, the X axis is in the direction of the crack, with the origin at the center of the crack. The value

$$C = \frac{L - 2l}{2}$$

is defined as the length of the plasticizing zone or the plasticizing modulus. Two assumptions are made: 1) the length of the plasticizing zone at the moment of increase of the crack length is independent of the crack length and the applied load; for a given material in given physical circumstances the plasticizing modulus is constant and characterizes the material properties; 2) the length of the plasticizing zone is covariant with crack length. These hypotheses, along with classical theory of elasticity, are applied in the solving of the problem of determining the bearing capacity of the plate. The author develops an effective means of solution using the theory of functions of complex variables.

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L 14664-66  
ACC NR: AT6003105

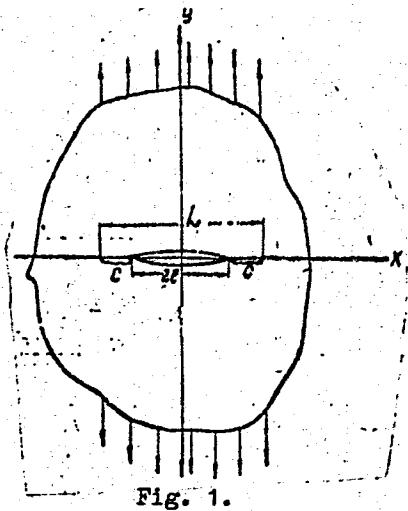


Fig. 1.

Orig. art. has: 26 equations and 4 figures.

SUB CODE: 20, 13/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

Card 3/3 *[Signature]*

L 14663-66 EWT(d)/EWT(1)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(h)/  
ACC NR: AT6003106 ETC(m)-6 IJP(c) SOURCE CODE: UR/3181/63/000/015/0341/0344  
JD/WW/EM

AUTHOR: Lukashev, L. G.

54  
B+1

ORG: Kuybyshev Aviation Institute (Kuybyshevskiy aviationsionnyy institut); Joint Scientific-Technical Conference on Problems of the Mechanics of Liquid and Gas (Kustovaya nauchno-tehnicheskaya konferentsiya po voprosam mekhaniki zhidkosti i gaza)

TITLE: A study of the bearing capacity of sloping shells with the presence of small cracks 18 24

SOURCE: Kuybyshev. Aviationsionnyy institut. Trudy, no. 15, pt. 2, 1963. Doklady kustovoy nauchno-tehnicheskoy konferentsii po voprosam mekhaniki zhidkosti i gaza (Reports of the Joint scientific-technical conference on problems of the mechanics of liquid and gas), 341-344

TOPIC TAGS: shell, cylindrical shell, shell structure, structural strength, crack propagation

ABSTRACT: The bearing capacity of sloping shells having small cracks is studied. The prototype shell is a sloping, circular cylindrical, thin-walled, isotropic,

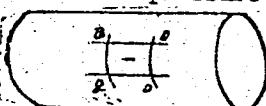
Card 1/2

2

L 14663-66  
ACC NR: AT6003106

nonreinforced shell with excess of external pressure (see Fig. 1).

Fig. 1.



Membrane stresses are written as

$$\sigma_1 = \frac{PR}{h}, \quad \sigma_2 = \frac{PR}{2h}, \quad \tau = 0,$$

where P is the overpressure, R is the shell radius, and h is the shell thickness. The quadrilateral abcd (see Fig. 1) is the boundary for a region on the shell surface which has a crack of length  $2f$ . The effect of shell curvature on stress concentrations near the fissure may be ignored (see G. N. Savin. Kontsentratsii napryazheniy okolo otverstiy, 1951). The author outlines the method of solving the problem for the critical overpressure, defined as the pressure at which a crack begins to increase. The method applied is based upon the Kolosov-Muskhelishvili formula (see N. I. Muskhelishvili. Nekotoryye zadachi matematicheskoy teorii uprugosti, 1954). Additional consideration is given to the case of a similar shell with circumferential and longitudinal reinforcement. The solution of bearing capacity, in this case, is closely analogous to the solution of the nonreinforced shell. Orig. art. has: 2 figures and 8 equations.

Card 2/3cc SUB CODE: 20, 13/ SUBM DATE: none/ ORIG REF: 004

LUKASHEV, M. V.

LUKASHEV, M. V. (Major, Veterinary Service,) Treatment of the mating disease with chlorarsen.

So: Veterinariya; 23; (8-9); August/September 1946;; Unclassified  
TABCON

LUKASIN, M. V.

"Changes in the Sternal Bone Marrow Punctate During Equine Piroplasmosis."  
Contd Vet Sci, Kazan' State Veterinary Inst, Kazan', 1954. (ZhBiol, No 3, Feb  
55)

SC: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (14)

ABATUROV, A.I.; VINOGRADOV, M.A.; DUBROVA, G.B.; LOTOREV, L.M.; ZORIN, S.N.;  
VASIL'YEV, A.A.; VOLOKITIN, A.S.; BUKOVETSKIY, A.I.; PEMAZKOV, N.S.;  
MEZENTSEV, P.V.; YEGORKIN, H.I.; DANILOV, M.M.; LUKASHEV, M.Ya.;  
MEYEROVICH, I.L.; KLYUCHEV, A.Ye.; SARYCHEV, V.G.; ZAVILOVICH, M.A.;  
NOVOSEL'SKIY, N.M.; GITLITS, S.A.; REZNICHENKO, M.S.; MOROZ, L.P.;  
KHETAGUROVA, F.V.; CHOGOVADEZE, Sh.K.; RYBCHENKO, A.A.; BOCHAROVA, N.P.;  
GAGLOYEVA, N.A.; KRYUKOVA, T.B.

Rubinshtein, Grigorii Leonidovich; 1891-1959. Sov. torg. 33 no.12:56  
(MIRA 13:2)  
D 1959. (Rubinshtein, Grigorii Leonidovich, 1891-1959)

RUBINSSTEYN, Grigoriy Leonidovich, doktor ekon. nauk, prof.;  
Prinimali uchastiye: BUKOVETSKIY, A.I., doktor ekon. nauk  
prof.; VASIL'YEV, A.A., kand. ekon. nauk, dots.; VOLOKITIN,  
A.S., kand. ekon. nauk, dots.; SARYCHEV, V.G., kand. ekon.  
nauk, dots.; LUKASHEV, M.Ya., kand. ist. nauk, dots.;  
LYSENKO, S.P., kand. ekon. nauk, dots.; BAK, I.S., doktor  
ekon. nauk, prof., retsenzent; GOGOL', B.I., doktor ekon. nauk,  
prof., retsenzent; ABATUROV, A.I., prof., red.; ROZHANKOVSKAYA,  
I.I., red.

[Development of domestic trade in the U.S.S.R.] Razvitiye vnutren-  
nei torgovli v SSSR. Leningrad, Izd-vo Leningr. univ., 1964.  
(MIRA 18:4)  
394 p.

USSR/General Problems of Pathology - Tumors

U-4

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 32658

Author : Lukashov N.A.

Inst : Not Given

Title : Diagnostic Value of an Adrenalin Test During Cancer of the  
Digestive Tract.Orig Pub : V sb.: Nekotorye vopr. morfol., fiziol. i patol. organov  
pishchevaniya. M., Medgiz, 1956, 157-165.

Abstract : By injection of 1 ml of 0.1% solution of adrenalin in 27 non-cancerous patients, the maximum and minimum blood pressure (BP) was increased. The same test in 97.4% of 113 patients with cancer of the digestive tract caused a drop of the BP.

Card : 1/1

LUKASHEV, N. A.

Cand Med Sci - (diss) "Clinical significance of the colored precipitation reaction of urine and adrenalin test in several surgical affections." Stalino, 1961. 20 pp; (Ministry of Public Health Ukrainian SSR, Stalino State Med Inst imeni A. M. Gor'kiy); 240 copies; price not given; (KL, 6-61 sup, 238)

LUKASHEV, N. I.

Primary processing of rabbit skins Moskva, izd-vo tekhn. i ekon. li-ry po voprosam  
zagotovok, 1954. 14 p.

NAKONECHNYY, Mikhail Ivanovich; LUKASHEV, N.I., red.

[Primary processing of the skins of fur-bearing animals raised in pens; work experiences of the cooperative fur farms of Omsk Province] Pervichnaia obrabotka shkurok pushnykh zverei kletcchnogo soderzhaniia; iz opyta raboty koopzveropromkhozov Omskoi oblasti. Moskva, Ekonomika, 1964. 39 p.

(MIRA 17:10)

AUTHOR: Lukashov, P.A., Engineer SOV-117-58-10-14/35

TITLE: Chill Casting of Fittings (Lit'ye armatury v kokil')

PERIODICAL: Mashinostroitel', 1958, Nr 10, p 19 (USSR)

ABSTRACT: It was found, that in producing sanitary technical fittings made of bronze, cast in earth molds, 40% of these fittings were leaking in hydrotests. This defect was caused by shrinkage porousness and gaseous cavities and became apparent only during the final stages of mechanical finishing. Removal of the defect by impregnation of the castings with bakelite and molten glass proved to be intricate and slow. Since 1957, die casting of the brass alloy LK80-3L and the aluminum brass LA67-2,5 was introduced. As a result of the new method and materials, the casting space increased by 4 to 5 times, the productivity per one laborer by 2.5 to 3 times, the cost decreased by 40% and the number of rejects fell to 5%.

1. Pipe fittings--Test results    2. Bronze castings--Quality control

Card 1/1

• LUKASHEV, S. I.

PHASE I Treasure Island Bibliographical Report

AID 235 - I

Call No.: TSISSR.X33

BOOK

Authors: KAL'YANOV, N. N., CHERKOV, D. A., and LUKASHEV, S. I.

Full Title: MINERAL WOOL PLANTS

Transliterated Title: Zavody mineral'noy vety

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of Literature on Construction and  
Architecture

Date: 1952

No. pp.: 208

No. copies: 3,000

Editorial Staff

Editor: Gervids, I. A., Candidate  
of Technical Sciences

Tech. Ed.: None

Ed.-in-Chief: None

Appraiser: None

Text Data

Coverage: The production of mineral wool and mineral wool products is described.  
Raw materials, equipment, planning and operation of plants for the  
production of mineral wool are discussed. The final chapter is devoted to  
the uses of mineral wool products as sound and thermal-insulating mater-  
ials in construction and industry. Only Russian references are cited.

1/2

Card 2/2

AID 235 - I

Call No.: TSI250.K33

Full Title: MINERAL WOOL PLANTS

Text Data

Coverage(cont.): The book is clearly presented. Contributions of some Soviet scientists to the improvement of equipment of mineral wool plants and to the production processes are mentioned.

Purpose: The book is designed to serve as a handbook for engineering and technical personnel employed in the mineral wool industry and in construction.

Facilities: Names of some Russian scientists are mentioned.

No. Russian and Slavic References: 14(1944-51)

Available: Library of Congress

~~SECRET~~  
LUKASHOV, T.P.

My recollections. Sakh. prom. 31 no.12:22 D '57. (MIRA 11:1)  
(Tetkino—Sugar industry)

LUKASHEV, V.

Distribution of manganese in the Quaternary sands in the  
southeastern part of the Pripyat Polesye. Vestsi AM BSSR.  
Ser. fiz.-tekhn. nav. no. 4:131-132 '62. (MIRA 18:4)

LUKASHEV, V. A.

"The Influence of Meteorological Factors upon the Appearance of Certain Nervous Diseases."

SO: Priroda, No. 10, 1949.

LUKASHEV, V.A.

279. Treatment of Hypertension with Oxygen. [Hypertenzionnoj bolzni kislorodom]

V. A. LUKASHEV. Клиническая Медицина [Klin. Med. Mosk.] 27, No. 5, 68-71, May, 1949. 1 fig., 10 refs.

A detailed account is given of the treatment of hypertension by subcutaneous injections of oxygen. The apparatus used is described, with a diagram. Briefly, oxygen is passed from a cylinder into a litre jar, displacing water into a similar jar to which is attached an air-bottle, by means of which the water can be driven back again under controlled pressure and the oxygen injected through a rubber tube and needle into the subcutaneous tissues. In this way the volume and pressure of the oxygen injected can be easily controlled. Twenty daily injections are given into the skin in the scapular region. The first dose is 50 g.; this is increased daily by 10 g. to a final dose of 100 to 200 g. Occasionally the course has to be repeated 2 to 3 months later. Blood-pressure readings are taken before and immediately after each injection.

Twenty-five cases were treated in this series, 14 in men and 11 in women, the patients ranging in age from 30 to 60. The fall in arterial pressure after one course of treatment varied from 10 to 65 mm. Hg. In a typical case, a pressure of 230/180 mm. Hg fell after five injec-

tions to 160/120. The patient remained symptom-free and the pressure at about the same level for 2 years. In another case the pressure fell from 195/120 to 120/80 mm. Hg. and 2½ years later was 140/120 mm. Hg. In some of these cases all kinds of treatment had been tried without success. The general condition of the patients was improved and headache diminished. [This line of treatment seems to show promise and should be followed up.] L. Firman-Edwards

Abstracts of World Medicine Vol 7 1950

Oct 50

USSR/Medicine - Subcutaneous Injections  
of Oxygen

"Treatment of Alcoholics and Smokers by Subcutaneous Injections of Oxygen," V. A. Lukashov

"Pravda" Vol XXXIX, No 10, pp 55, 56

Using special app constructed by Kolotilov and Lukashov, treatment against chronic alcoholism and smoking by injecting oxygen subcutaneously is being regularly applied at Kinel'-Cherkassk Hosp. In the case of alcoholism, starting dose of 50 cc is increased daily by 50 cc until a dose of 500 cc is reached. Site of injection is in region of shoulder blades. Large doses up to 1,000 cc sober up

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Oct 50  
177165USSR/Medicine - Subcutaneous Injections  
of Oxygen (Contd)

patient expeditiously. In treating heavy chronic smokers, initial dose of 50 cc is increased daily by 25 cc until single daily dose of 400 cc is reached. Injection is carried out along spine in C<sub>6</sub>-T<sub>1</sub> region. Treatment, which has been applied since 1927, was found to be effective in curing both chronic alcoholism and nicotineism. General condition of patients improved in every respect.

177165

LUKASHOV, V. A.

LUKAGNEV, V. A.

Alcoholism

Application of oxygen in chronic alcoholism. Sov. Med., 16, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

LUKASHEV, V.A.

Subcutaneous oxygen injections in endarteritis obliterans. Vrach.  
deco no.2:185-186 P '56. (MIRA 9:7)

1. Zasluzhennyj vrach RSFSR. 2. Kabinet nevnykh blezney Kinel'-  
cherkasskoy polikliniki Kuybyshevskoy oblasti  
(ARTERIES--DISEASES)  
(OXYGEN--THERAPEUTIC USE)  
(INJECTIONS, HYPODERMIC)

Lukashov, V.A.

LUKASHEV, V.A., zasluzhennyj vrach RSFSR; SEN'KOVSKAYA, Yu.F.; KOVALEVA, S.V.

Portable apparatus for subcutaneous infusion of oxygen. Akush. i  
gin. 32 no.6:72-73 N-D '56. (MIRA 10:11)

1. Iz Kinel'-Cherkasskoy polikliniki Kuybyshevskoy oblasti.  
(OXYGEN, ther. use  
portable appar. for subcutaneous infusion)

*LUKASHEV, V.A.*

BATURO, Ye.P.; LUKASHEV, V.A., zasluzhennyi vrach RSFSR (Kinel'-Cherkassy,  
Kuybyshevskoy obl.)

Use of hypodermic injections of oxygen in compound resort therapy.  
Vrach.delo supplement '57:40 (MIRA 11:3)

1. Kurort "Sergiyevskiye mineral'nye vody"  
(OXYGEN--THERAPEUTIC USE)

LUKASHEV, V.A., zasl.vrach.RSFSR, KOZLOVA, A.M., FILIPPOVA, V.A., KOVALEVA, S.V.  
ARTEM'YEV, Ye.G. (Kinel'-Cherkassy, Kuybyshevskoy obl.)

Subcutaneous insufflation of oxygen in treating neuromyositis of  
milkmaids' hands. Vrach.delo no.5:541 My '58 (MIRA 11:?)  
(OXYGEN--THERAPEUTIC USE)  
(HANDS--DISEASES)

LUKASHEV, V.A. (Kinel', Cherkassy, Kybryshevskoy oblasti)

Treatment of impotence by subcutaneous insufflation of oxygen.  
Kaz.med.zhur. 40 no.1:86 Ja-F '59. (MIRA 12:10)  
(IMPOTENCE) (OXYGEN--THERAPEUTIC USE)

LUKASHEV, V.A., zasluzhennyy vrach RSFSR

Use of subcutaneous oxygen insufflation in the rural polyclinic.  
Azerb.med.zhur. no.12:71-73 D '59. (MIRA 13:4)

1. Iz Kinel'-Cherkasskoy polikliniki Kuybyshevskoy oblasti (zavoduyushchiy - A.M. Kozlova).  
(OXYGEN--THERAPEUTIC USE) (INJECTIONS, HYPODERMIC)

LUKASHEV, V.A.

Oxygen therapy in a rural polyclinic. Sov.med. 24 no.11:118-120  
(MIRA 14:3)  
N '60.

1. Iz Kinel'-Cherkasskoy polikliniki (zav. - Z.Ya, Feoktistova)  
Kuybyshevskoy oblasti.  
(OXYGEN THERAPY)

LIKAShev, V.A., cand med sci -- (alias) "Concerning the use of subcutaneous injection of oxygen in medical practice," Smolensk, 1960, 15 pp (Smolensk State Medical Institute) (KB, 35-60, 126)

LUKASHEV, V.A., zasluzhennyj vrach RSFSR (Kinel'-Cherkassy, Kuybyshevskoy oblasti)

Subcutaneous use of oxygen in chronic eczema. Kaz.med.zhur. 14  
no.1:120 Ja-<sup>F</sup> '60. (MIRA 13:6)  
(OXYGEN--THERAPEUTIC USE) (ECZEMA)

LUKASHEV, V.A., zasluzhennyy vrach RSFSR

Influence of meteorological factors on the appearance of some  
nerve diseases. Zdrav. Turk. 4 no. 3:26-28 My-Je '60.  
(MIRA 13:10)  
(NERVOUS SYSTEM--DISEASES) (MAN--INFLUENCE OF CLIMATE)

LUKASHEV, V.A., zasluzhennyj vrach RSFSR (Kinel'-Cherkassy, Kuybyshevskoy oblasti)

Treating chronic alcoholism with oxygen. Vrach. delo no.12:145 D '61.  
(MIRA 15:1)  
(OXYGEN THERAPY) (ALCOHOLISM)

LUKASHEV, V.A.; SHAYMARDANOV, V.M.

Subcutaneous injection of oxygen in neuritis of the acoustic  
nerves. Kaz. med. zhur. no.1:74 Ja-F'63. (MIRA 16:8)  
(~~NO SUBJECT HEADINGS~~)

AUTHOR:

Lukashov, V.F.

131-23-5-12/16

TITLE:

Utilization of Loans Granted by the State Bank by the Borovich  
Combine (Ispol'zovaniye ssud Gosbanka Borovichskim kombinatom)

PERIODICAL:

Ogneupory, 1958, Vol. 23, Nr 5, pp. 236-236 (USSR)

ABSTRACT:

The Kombinat every year works out a plan for measures of technical organization to be carried out, which concern the mechanization of finishing processes, the introduction of a new technology, the increase of the productivity of work, and the reduction of the prime costs of manufacture. The carrying out of these measures warrants the increase of production capacities as well as the improvement of technical and economic work values. For the purpose of carrying out these measures the Kombinat receives loans from the State Bank. In 1957 these loans amounted to 2350000 rubles, the method of producing shaped products being changed to that of dry pressing in works department Nr 5; furthermore, the mounting of a new line for semi-dry pressing was carried out in department Nr 8, mounting of a line for fire clay grinding in department Nr 7, and periodic furnaces of department Nr 8 were changed to annular kilns, etc. The measures carried out are profitable from

Card 1/2

Utilization of Loans Granted by the State Bank  
by the Borovichi Combine

131-23-5-12/16

an economic point of view within a short time. In order to be able to utilize these loans successfully, it is necessary that work in the various departments be prepared carefully: plans and estimates of costs must be worked out in time; the necessary equipment and material must be procured; building- and assembly work must be duly organized. The cooperation of such special organizations as "Soyuzteplosstroy", "Tsentroenergochermet", "Prommontazh" and of the mechanical central workshops of the Combine must be secured. In 1958 it is intended that a loan amounting to 3.5 million rubles be granted for these purposes.

ASSOCIATION: Borovichskiy kombinat ogneuporov (Borovichi Combine for Refractories)

AVAILABLE: Library of Congress

1. Industrial plants - USSR
2. Finances
3. Federal budgets - Applications

Card 2/2

*Lukashen, V.F.*

NAVROTSKIY, V.K., prof.; LUKASHOV, V.I.; NIKOLAYEVA, N.M.; TIRASPOL'SKAYA.

Effect of chronic aniline poisoning on the course of pulmonary  
tuberculosis in rabbits. Vrach.delo no.1:59-63 Ja '58. (MIRA 11:3)

1. Kafedra gigiyeny truda Khar'kovskogo instituta usovershenstvovaniya  
vrachey. 2. Chlen-korrespondent AMN SSSR (for Navrotskiy)  
(ANILINE--PHYSIOLOGICAL EFFECT) (TUBERCULOSIS)

LUKASHEV, V.K.

Modern activity of the wind in the White Russian Polesye. Dokl.  
AN BSSR 4 no.4:172-175 Ap '60. (MIRA 13:10)

1. Institut geologicheskikh nauk AN BSSR. Predstavлено akad. AN  
BSSR I.S. Lupinovichem.  
(Polesye--Winds)

LUKASHEV, V. K. [Lukashou, V. K.]

Origin of the hilly dune relief of the Pripyat Polesye. Vestsyi  
AN BSSR. Ser. fiz.-tekhn. nav. no.1:76-86 '63.  
(MIRA 16:4)

(Polesye—Sand-dunes)

LUKASHEV, V.K.

Paleogeographic conditions of dune formation in Polesye. Dokl.  
AN BSSR 7 no.5:334-338 My '63. (MIRA 16:12)

1. Institut geologicheskikh nauk AN BSSR. Fredstavлено академиком  
AN BSSR. K.I. Lukashevym.

LUKASHEV, V.K.; SOLOGUB, V.M.

Accumulation of loess material in the depositions process of  
terminal moraine. (as exemplified in the Mozr' Hills). Dokl.  
AN BSSR 7 no.8:543-547 Ag '63. (MIRA 16:10)

1. Institut geologicheskikh nauk AN BSSR, Predstavleno  
akademikom AN BSSR K.I. Lukashevym.

MAKHACH, S.D.; LUKASHEV, V.K.

Some mineralogical and geochemical data on the ancient weathering  
crust of the Zhitkovichi region. Dokl. AN BSSR 6 no.12:791-794  
D '62. (MIRA 16:9)

1. Institut geologicheskikh nauk AN BSSR. Predstavлено akademikom  
AN BSSR K.I.Lukashevym.